Syllabus MSNE 451/450 MATERIALS SCIENCE SEMINAR rev.23Aug2018 P.Loos

Description: Seminars on various topics in materials science & engineering
Degree plan: Both 451 and 450 are required for the BS in MSNE
Credits: 451: 1 semester hour, 450: 0 semester hour
Grade Mode: Satisfactory/Unsatisfactory. No credit is earned for Unsatisfactory performance.
Instructor: Robert Vajtai**, office:** MEB 218 **email:** robert.vajtai@rice.edu
Textbook and other course materials: none
Prerequisites and Co-requisites: none
Goals for this course: (A) to familiarize students with subjects related to materials science and engineering which are of current interest and which are beyond those covered in their coursework and (B) to stimulate some thought by students regarding their own professional goals and interests.

Each semester there will be approximately twelve MSNE department seminars. Date, time, and location are announced through Web page msne.rice.edu under Events and occasionally by email. It is the responsibility of the student to find that information and schedule their activities accordingly.

An MSNE department administrator will take attendance, and it is the responsibility of each student in attendance to find either the administrator or Instructor and make sure their attendance is recorded. Attendance at each seminar, for its entirety, counts as one point. Attendance points are also earned as follows. Two points for a local chapter meeting or three points for a national conference, sponsored by any of the professional societies listed below.

MSNE 451 students are required to join a materials-related professional society. Acceptable ones include Material Advantage, ASM, TMS, ACerS, AIST, MRS, AWS, ASTM, NACE, HABA, and others approved in advance by Instructor. This expense, within limits, will be reimbursed once the student fills out an expense report, attaches a proper receipt, and turns it in at the MSNE office or to Instructor. If a professional society has a reduced membership rate for students, then reimbursement is limited to that student rate. Some limited expenses for travel and meals off-campus related to chapter meetings or conferences may also be reimbursed. All such reimbursements must be per university policies and procedures. Various other limits will be established by the department each semester and announced by Instructor.

For each presentation attended students will turn in a brief Presentation Evaluation (copy attached below) which includes: (1) the name and affiliation of the primary speakers and the title of their presentations, (2) a summary of any hypotheses and conclusions presented, and (3) quantitative ratings of presentation quality and its relevance to student's goals and interests. Reports should each be about 60 to 120 words long.

In order to earn a Satisfactory grade for the semester, attendance points must equal or exceed the following: MSNE 450: five (5) and MSNE 451: nine (9) points (or MSNE seminars) during the semester; and, the corresponding written reports must also be Satisfactory.

This course is intended to address ABET General Criterion 3. Student Outcomes:

4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Any student with a disability requiring accommodations in this class is encouraged to contact the instructor after class or during office hours. Additionally, students should contact the coordinator for Disability Support Services in Allen Center.

MSNE 450/451 Presentation Evaluation

pjl 8Jan17

for dept. seminar, or off-campus seminar, per the course syllabus

MUST be turned in within 7 days of presentation, otherwise no credit given!
Please format file names as follows: **YYMMDD-Lastname.docx**
where YYMMDD is the seminar date and Lastname is student's

Student Name: _____

Date of Presentation: _____Location:_____

Speaker's Name & Affiliation: _____

Title of Presentation: _____

Hypothesis: _____

_____

_____

_____

_____

Conclusions: _____

_____

_____

_____

Below, please choose one response to each item by underlining it, highlighting it, or deleting the others. Often, boldface becomes difficult to see.

Overall rating of this presentation quality, irrespective of student's interests:

(A) among the best **(B)** good **(C)** average **(D)** needs improvement **(F)** among the worst

Relevance or irrelevance of this presentation to the student's goals or interests:

(0) totally irrelevant **(1)** somewhat relevant **(2)** I'm quite interested in working in that field

Syllabus MSNE 500 MATERIALS SCIENCE SEMINAR

Description: Seminars on various topics in materials science and nanoengineering

Degree plan: required for the MS and PhD in MSNE

Credits: 1 semester hour, Repeatable for Credit

Grade Mode: Satisfactory/Unsatisfactory.
No credit is earned for Unsatisfactory performance.

Instructor: Robert Vajtai, **office:** MEB 218 **email:** robert.vajtai@rice.edu

Textbook and other course materials: none

Prerequisites and Co-requisites: none

Goals for this course:

(A) to familiarize students with subjects related to materials science and nanoengineering which are of current interest and which are beyond those covered in their coursework and

(B) to stimulate some thought by the students regarding their own professional goals and interests.

Each semester there will be approximately twelve MSNE department seminars. Date, time, and location are announced through Web page msne.rice.edu under the Events tab and usually by email. It is the responsibility of the student to find that information and schedule their activities accordingly.

Attendance and Grading Policy: A department administrator will take attendance. It is the responsibility of each student to find either the administrator or Instructor and make sure their attendance is recorded. To earn a Satisfactory grade for the semester, attendance must equal or exceed the following fraction of seminars during the semester. MS degree: 50% and PhD degree: 75%.

Any student with a disability requiring accommodations in this class is encouraged to contact the instructor after class or during office hours. Additionally, students should contact the coordinator for Disabled Student Services in Allen Center.